



Vitrium DRM Settings

For Vitrium Security and JSON Server v3 Specification

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Document Revision: 1.04



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Document Revisions

Revision Number	Reason	Date
1.00	Initial document released	June 22, 2020
1.01	Added notes about Version Unique API DRM settings	March 16, 2021
1.02	Documented additional DRM settings (IsWebAccessibilityEnabled, AllowProtectedDownload, AllowAnnotationViewing, DisableRotations) Removed pre-8.3.0 release details, if you need detail on external service v2 (old), the please reach out to our support dept for assistance.	April 5, 2023
1.03	Added "default" notation to settings	June 21, 2023
1.04	Added elements to suppress annotation toolbar items (available starting in Build 10.30)	September 6, 2023



Admin User Interface (UI) DRM Settings

General Settings | **Advanced Settings**

+ Add DRM Policy

Policy Name * | 1

Start Date Immediate 2

Expiry Date Never 3

Expiry After First Unlock Unlimited 4 weeks

Offline Access Unlimited 5 weeks

Device Limits

Combined Limit Unlimited 6a

PDF (Adobe) Limit Unlimited 6b

Web Browser Limit Unlimited 6c

Web Browser Print Limit Unlimited 7

* indicates a required field

✓ SAVE & EXIT

General Settings | **Advanced Settings**

+ Add DRM Policy

Library Or Account Limit Unlimited 8

Download To Print Limit Unlimited 9

Allow Source File Download 10

Allow Protected PDF Download 11

Allow Accessibility (Aria Viewer) 12

Allow Annotation Viewing 13

Content Open Limit Unlimited 14

IP Address Limit Unlimited 15a 0

Allowed IP Addresses 15b

Location Restrictions 16

Location Permits 17

✓ SAVE & EXIT



API AccessPolicy and WebViewDocPolicyOverride Values

The following table provides the **AccessPolicy** and optional **WebViewDocPolicyOverride** settings and values that can be used in a JSON response. It is recommended that DRM settings or AccessPolicy be managed in only one endpoint and specifically, that they be returned in the **Authorize** endpoint response.

NOTE: If you do not provide one or more key-value pairs, the default values (noted in **BOLD** in the *Definition of Values*) column will be applied.

Item #	Attribute (in API)	Description	Definition of Values
1	Policy Name	String describing the DRM Setting. Not applicable to an external service.	
2	StartDate	The start date of the DRM policy. By default, a null means the policy is in effect immediately. Setting a future date is useful for subscription-based policies. Not applicable to an external service.	null : immediate
3	Expiry ⁷⁸	Last date in which the user can access a secured document.	null : never expires
4	RelativeExpiryInDays ⁸⁹	Number of days the user can unlock a document after the first unlock session	null : unlimited
5	OfflineDurationinDays ⁷⁹	Number of days the user can view the document in offline mode	null : unlimited
6a	ComputersMax ⁴ (See footnote!)	Total number of Adobe PDF viewers AND unique web browsers "combined" that a user can unlock the protected content with	null : unlimited -1 : value not defined
6b	PdfLimit ⁴	Total number of Adobe PDF viewers that a user can unlock the protected PDF document with	null : unlimited -1 : value not defined
6c	BrowserLimit ⁴	Total number of unique web browsers that a user can unlock the secured web document with	null : unlimited -1 : value not defined
7	WebPrintLimit	Number of times the user can print a copy of the web document in a browser. A value of 0 will hide the toolbar icon.	null : unlimited
8	DocumentLimit	Number of documents that the user can unlock (aka Library or Account)	null : unlimited -1 : value not defined
9	PrintLimit	Number of times the user can download a printable copy of a document (AKA Download to Print). Only applies to the Vitrium Webviewer toolbar. A value of 0 will hide the toolbar icon.	null : unlimited
10	AllowDownloadSourceFile	Allow user to download the original unprotected source file	True: allowed False : not allowed
11	AllowProtectedDownload	Refer to Web Viewer setting page in the admin ui. This will allow a user to download a Protected PDF from the web viewer.	True: allowed False : not allowed
12	IsWebAccessibilityEnabled	Allow user to enable the ARIA viewer mode in the web viewer? This is a visually impaired feature. It	True: allowed False : not allowed



Item #	Attribute (in API)	Description	Definition of Values
		also allows the user to copy the text in the content as digital readers/narrator apps need to be able to select the text.	
13	AllowAnnotationViewing	Allow user to retrieve and export annotations from other users that have access to the same content.	True: allowed False: not allowed
14	OpenLimit	Number of times the user can unlock a document after the first unlock session	null: unlimited
15a	IpAddressesMax	Number of IP addresses that could be used to unlock a document	null: unlimited
15b	IgnoredIpAddresses ⁶	Range of IP addresses that could be used to unlock a document. The IP address defined here will not count against the IpAddressesMax value.	Empty string: no rule defined
16	LocationRestrictions ⁵	Deny list countries, Canadian Provinces, or USA States. Users in these areas would not have access to the content.	Empty array: no rule defined
17	LocationPermits ⁵	Allow list countries, Canadian Provinces, or USA States. Only users in these areas would have access to the content.	Empty array: no rule defined

⁴ ComputersMax and PdfLimit / BrowserLimit are mutually exclusive. When setting ComputerMax, you have to set both PdfLimit and BrowserLimit to "-1" otherwise you will have confusing results. Likewise, if setting PdfLimit or BrowserLimit, then set ComputerMax to "-1".

⁵ LocationRestrictions and LocationPermits is based on GeoIP lookup. Valid values are ISO 3166 international standard Alpha-2 codes and/or Province or State 2-character codes. An example might be: ["CA-QC", "CA-ON", "US", "CZ", "IR", "CN"]

⁶ IgnoredIpAddresses can contain a single IP address, a subnet range, or multiple combinations of both. IPv4 is currently supported and Ipv6 support will be available in the near future. A mix of both IPv4 and IPv6 values can co-exist. IPv4 sample syntax would be: xxx.xxx.xxx.xxx,xxx.xxx.xxx.xxx-xxx.xxx.xxx.xxx where a subnet range is delimited by a dash and each IP subnet is separated by a comma.

⁷ Expiry vs OfflineDurationInDays. Expiry takes precedence. Offline days is set to lessor of (expiry, offline). Offline date is based on last unlock date.

⁸ Expiry vs RelativeExpiryInDays. Expiry takes precedence. Relative is set to lessor of (expiry, relative). Relative date is based on first unlock date.

⁹ OfflineDurationInDays vs RelativeExpiryInDays. Offline Rules. Offline is set to lessor of (offline, relative). Offline date is based on last unlock date. Relative date is based on first unlock date.

In addition to the above DRM settings in the Vitrium Admin UI, an Enterprise customer also has the ability to further override some content and print settings but only in the WebViewer (not in the Protected PDF files) and only if the noted feature has been enabled on your account.

The following settings can be included in the **WebViewerDocPolicyOverride** section of a JSON server RESTful response and, if you're planning on using any of these hidden permissions, you must provide all using either a value of True or False:

Attribute	Description	Definition of Values
AllowCopy	Enable copy/paste function	False: not enabled True: allowed



Attribute	Description	Definition of Values
AllowPrint	Enable the "Download to Print" toolbar button. This will download a Protected PDF with a 30-minute, one device limit and with printing enabled.	False: not enabled True: allowed
AllowWebPrint	Enable the "Print" toolbar button	False: not enabled True: allowed
DisableBookmarks	Disable/hide the Bookmark feature from the left side column. Also known as "Outlines".	False: not enabled True: hidden
DisablePageRangePrint	Disable the print "all" and "Page range" options in the print dialog box. Only "Current page" will be enabled.	False: not enabled True: enabled
DisableSearch	Disable the Search toolbar button	False: not enabled True: hidden
DisableRotations	Disable the page rotation feature	False: not enabled True: hidden
DisableFreeHandAnnotations	Annotation Toolbar: Disable free-hand annotations in Web Viewer. These include free-hand drawing and free-hand highlight.	False: not hidden True: hidden
DisableTextAnnotations	Annotation Toolbar: Disable free text annotations in Web Viewer.	False: not disabled True: hidden
DisableTextDecorationAnnotations	Annotation Toolbar: Disable text decoration annotations in Web Viewer. These include underline, squiggly underline, highlight, and strikeout.	False: not disabled True: hidden
DisableNoteAnnotations	Annotation Toolbar: Disable note annotations in Web Viewer.	False: not disabled True: hidden
DisableShapeAnnotations	Annotation Toolbar: Disable shape annotations in Web Viewer.	False: not disabled True: hidden
DisableMeasureTools	Annotation Toolbar: Disable allow measurement tools in Web Viewer.	False: not disabled True: hidden

Version Unique API DRM settings

While these version unique DRM settings DO NOT apply to the external service, we thought it's important to include this information here in case assumptions are made.

For the version unique API, the variable 'expiry' does nothing and the expiry date would default to 30 minutes whether an expiry value is supplied or not! The version unique access policy override settings are:

- ComputersMax
- DocumentLimit
- IpAddressesMax
- IgnoredIpAddresses
- OfflineDurationinDays
- OpenLimit



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- **ExpiryInMins**
 - LocationPermits
 - LocationRestrictions

In the version unique API call, the field that is used to calculate an expiry date is the "ExpiryInMin", which keys of the received date or the system date that the record was added to the system. So, to grant a 90-day expiry would be $(90 * 24 * 60)$ or $(NumberOfDays * HoursInDays * MinutesInHour)$ or "ExpiryInMins": 129600.

Supplying "ExpiryInMins": 2147483647 generates an expiry date that is far into the future (unlimited effectively). Specifically, it would grant 89,478,485 days which is more than a lifetime.

NOTE: If you don't provide a value for ExpiryInMin, it will default to 30 minutes.